EXPLORATION PREVIEW

N.T - 1986

EGS - 1986-4

Geological Staff
Geology Division, NAP
Box 1500 Yellowknife
March 05 1986

87-03942/

Arctic Islands Region

Panarctic Oils Ltd. plan to do follow-up work on their 26 prospecting permits in the Shaler Mountains of Victoria Island, (1) in Figure X-1.

Cominco Ltd. will continue to mine, explore and define the Polaris deposit (2).

Nanisivik Mines Ltd. will drill test numerous geophysical targets near the Nanisivik Mine (3).

Borealis Exploration Ltd. plan to continue exploration for gold on their Melville Peninsula prospecting permits (4).

Southeastern Mackenzie Region

Pine Point Mines Ltd. announced a 1.3 million dollar exploration budget for 1986, but cancelled this program in early March before much work had been completed.

Highwood Resources Ltd. will continue drilling, sampling and feasibility studies of their Y - Be - REE - Nb - Ta deposit at Thor Lake.

Several other projects are believed to be in the planning stages, but are either confidential or unfunded at present.

Cordilleran Region

Few exploration projects are anticipated in the Cordilleran District in 1986. Amax will probably continue to gather information for a feasibility study at MacTung, and several prospectors are expected to explore for placer gold, mainly in the watershed of the South Nahanni River.

A program of trenching and drilling recommended on Logan Mine's ROY, RCN and L Claims, 50 km south of Tungsten, may be carried out.

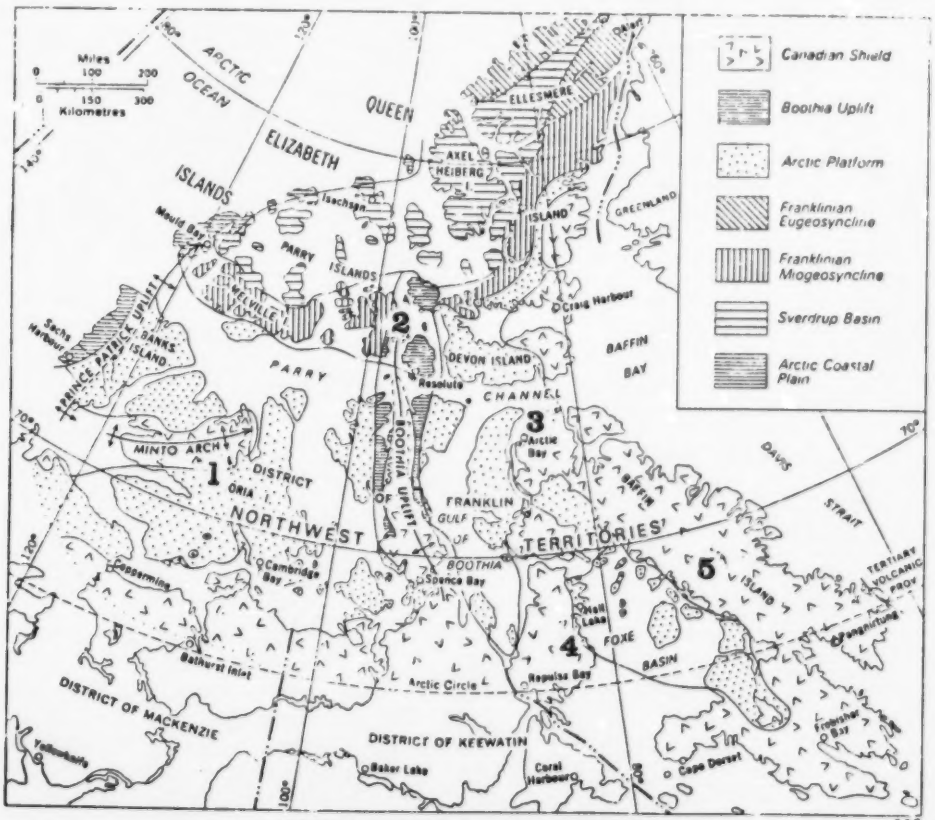

FIGURE X-1. Geological provinces of the Arctic Archipelago.

GSC

Bear-Slave Region

The following notes outline to probable activities of mining companies in the Bear-Slave Region. Exploration is for gold unless otherwise stated. Numbers in text refer to Figure X-2.

It is anticipated that expenditures will be slightly down compared to 1985, mainly because of cut-backs by Echo Bay Mines Ltd. who are restricting their activities to the Lupin Mine area and to the Lex Lake prospect. However, this is likely to be offset by large expenditures on underground exploration by Terra Mines Ltd. at Bullmoose Lake, by Giant Bay Resources Ltd. at Gordon Lake and by Treminco and Goldrich Resources near Yellowknife.

Aber Resources Ltd. is expected to work on claims in the Myrt Lake area (4). Several claims were transferred from C. Vaydik to Aber, in the Courageous Lake - MacKay Lake Volcanic Belt (8) during February 1986.

Asamera Inc. has projects proposed for the Brislane Lake (7), Sofia Lake (2) and Amacher Lake (5) areas. This reconnaissance includes geological mapping and geochemical surveys.

Claims of 30514 Alberta Ltd. in the Contwoyto Lake area (21) have been optioned to Hecla Mining Company of Canada Ltd. The option will remain in operation during 1986. In the Indin Lake area (23) 30514 Alberta Ltd. is hoping to option a claim to a yet unspecified operator.

American Chromium Ltd. proposes geological and geochemical reconnaissance, in the Sour Lake part of the Courageous Lake - MacKay Lake Volcanic Belt and adjacent sediments (8). American Chromium concluded a joint venture agreement with Cominco Ltd. by which Cominco will explore the southern part of American Chromium's ground in the Sour Lake area (8). This program includes drilling of an IP and EM anomaly. Farther to the north on the Courageous Lake - Mackay Lake Volcanic Belt, American Chromium will explore Lava Resources Ltd.'s DW property in joint venture with Highwood Resources Ltd.

Bronco Ltd. (Cassiar Resources Ltd.) will continue work on the west claim at Contwoyto Lake (21) in joint venture with Consort Energy Ltd. Geological mapping, rock sampling and diamond drilling is contemplated.

Back River Joint Venture under the field management of Trigg Woollett Olson Consulting, will maintain a high level of activity in the Back River - Beechey Lake - Western River area (11, 12) where it holds numerous prospecting permits and claims. The program will include diamond drilling, but not, airborne geophysical surveying.

Bow Valley Industries Ltd. will resume exploration of its extensive holdings at Contwoyto Lake south of Echo Bay's Lupin Mine (21). The amount of diamond drilling will probably be less than in 1985 (3000 m as opposed to 4000 m). Other field work will be roughly the same with much gridding and geophysics over frozen lakes.

Blackridge Gold Ltd. and Cruiser Minerals Ltd. will continue to explore their property at the south end of Gordon Lake (4). Shallow and deep diamond drilling are expected.

Cove Energy Ltd. plans additional diamond drilling on their TANIA claim near Webb Lake (4). Three holes were drilled in January 1986.

Cominco Ltd. plans a modest reconnaissance program at about the same scale as in 1985, other programs include drilling in the Contwoyto Lake area (21) in joint venture with Cogema Canada Ltd., at Courageous Lake (8) partly in joint venture with American Chromium Ltd., and on the BUGOW Claims at Russell Lake (24).

Placer Development Ltd. terminated their option of Comaplex's SPAN and OTT group. If Comaplex succeeds in interesting other companies in this property another project may materialise in the Indin Lake area.

CEGB Exploration Canada Ltd. are planning detailed geochemical surveys near Dumas Lake (17), where they hold prospecting permits issued in 1985. The purpose of the surveys will, in part, be to find the source of a uraniferous boulder. CEGB will explore two prospecting permits at Longtom and Zebulon Lake (18) by geological mapping, geochemical surveys including rock sampling, by trenching of a uranium showing and probably by VLF-EM and magnetometer surveys. In addition, ground follow-up of anomalies outlined in regional airborne geophysics is scheduled.

Canuc Resources Ltd. is seeking financing to continue exploration at the Arcadia property near Grays Bay (15).

Domego Resources Ltd. may continue work on their V00 Claims in the Indian Mountain Lake area (7) where magnetometer and EM surveys were done in January 1986.

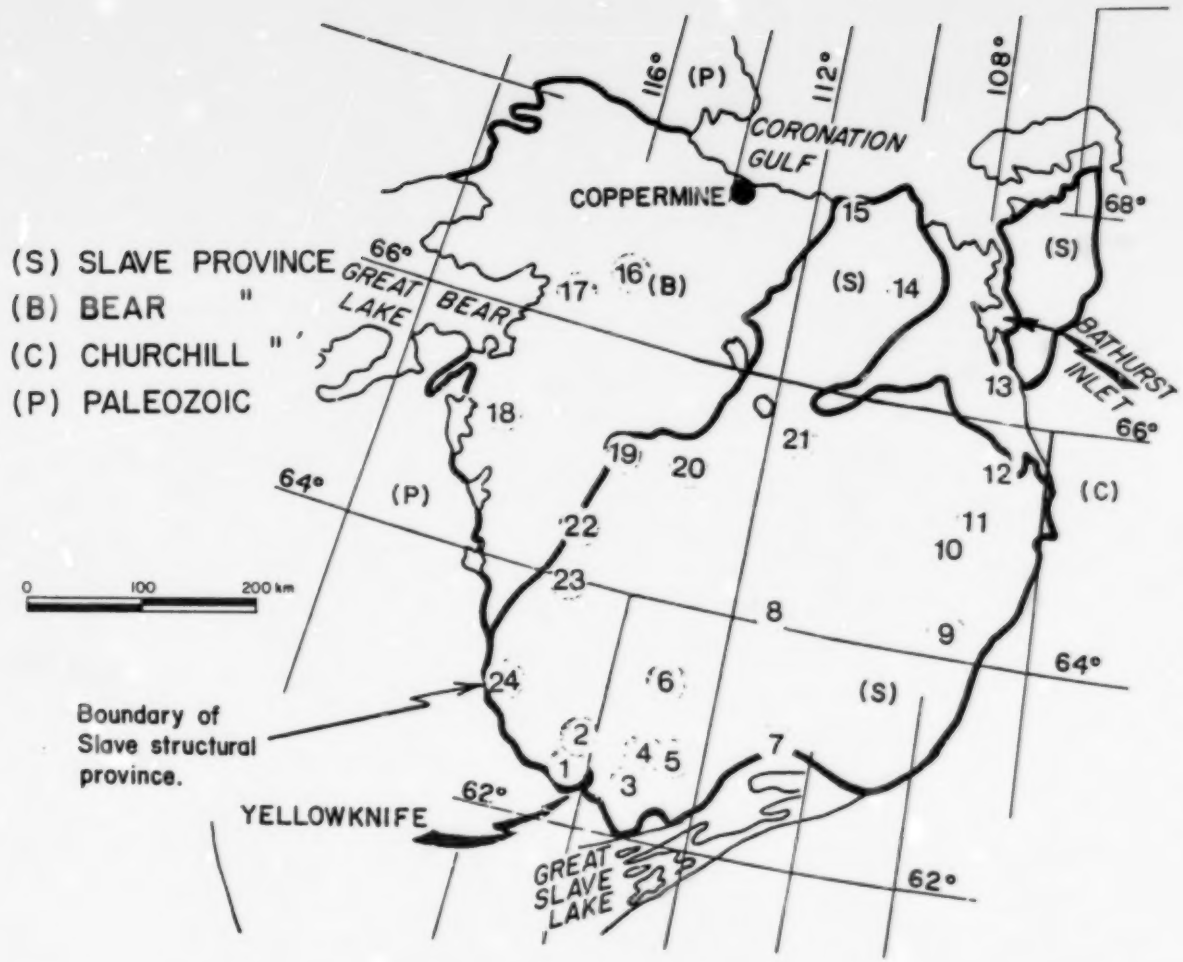

Figure X-2. Exploration expected in the Bear and Slave Structural Provinces.

Echo Bay Mines Ltd. will restrict exploration to their joint venture with Comaplex Resources Ltd. and Petromet Resources Ltd. at Lex Lake (23). All other Echo Bay exploration projects in the Slave Province except that around the Lupin Mine property (21) are suspended.

Equinox Resources Ltd. has two programs scheduled for 1986. One is to evaluate lithuim - bearing pegmatites in the Yellowknife Basin of the Slave Province (3). The other is to explore the platinum potential of the Muskox Intrusion (16) in the Bear Province. Both programs will likely entail diamond drilling.

Frontier Gold Mines Ltd. intends a legal survey of its BARKER (previously VIDIE 1-6) claim in the Indin Lake area (22,23), but does not contemplate other work.

Giant Bay Resources Ltd. will be driving a 490 m - long decline at their property on the north side of Knight Bay, Gordon Lake (4). Both surface and underground diamond drilling are proposed.

Giant Yellowknife Mines Ltd. will resume drilling in the Salmita area of the Courageous Lake - MacKay Lake Volcanic Belt (8) and reconnoitre the TMK claims in the northern part of the belt. In the Bridge Lake area Giant will continue exploration of W. Kizan's KA claims, probably by geological and geophysical surveys. Work will also be done on the ALGOOD claims in the Regan Lake area (11) in joint venture with Cominco, and a reexamination of the TREE claims near Point Lake (20) is probable. Giant Yellowknife Mines are undecided on whether to continue work in the Crestaurum Mine area (1) where work in 1985 included diamond drilling. Drilling was underway in February and March.

Golden Marlin Mines Ltd. resumed exploration of their extensive claim block in Yellowknife Bay (1) with diamond drilling that began in early Feburary. More seismic and IP surveys are proposed.

Goldrich Resources Ltd., in partnership with Ireminco Ltd., will continue underground exploration and development of the TOM Claims near Ptarmigan Mine (1). The property is currently passing to the production stage.

Ghost Lake Resources Ltd., controlled by Rae Dogrib Band, Nishi Khon Forest Services Ltd. the Rae-Edzo Dene Band Development Corp. Ltd. and others hold several claim groups on some or all of which work will probably be done. Most are in the Southern Gordon Lake Cameron River area (4).

Golden Rule Resources Ltd., in conjunction with Manson Creek Resources Ltd. and Delaware Resources Ltd., are proposing a modest program to follow-up a DIGHEM airborne survey in the Indin Lake area (22, 23).

Neither Getty Canadian Minerals nor associated companies (Getty Mines Ltd. etc) are likely to work as operators of exploration projects in the Bear-Slave region. However, Getty is a joint venture partner of Noranda Exploration Company Ltd. in the Courageous Lake - MacKay Lake Volcanic Belt (8) Tundra project. A joint venture between Savanna Resources Ltd., American Chromium Ltd., Noranda Exploration Company Ltd. and Getty Canadian Minerals Ltd. on the NWT (Sour Lake) property was dissolved in April 1985.

Inter Globe Resources Ltd. (previously Hot Resources Ltd.; previously Host Ventures Ltd.) is unlikely to return to the Slemon Lake area in view of lack of financing.

Halferdahl and Associates as operators for an Edmonton-based syndicate, will probably return for a slightly reduced geological and geochemical program on the PRO and other claims near Walsh Lake, north of Yellowknife (1). Drilling is not anticipated. Future plans may be dependant on Federal Budget regulations with regard to flow-through shares.

Walter Humphries will continue to map and prospect his claims in the Walsh Lake-Banting Lake area (1).

Highwood Resources Ltd. is unlikely to do much outside the Thor Lake property but may participate with other operators in various projects.

Hecla Mining Company of Canada Ltd. is expected to continue exploring 305314 Alberta Ltd. claims (JOHN, SHIN and DLER) in the Contwoyto Lake area (21). Geology and ground geophysics are proposed on all claims covered by airborne geophysics in 1985. Drilling is not scheduled.

Lightning Minerals Ltd. of Calgary, may acquire Terra Mines Ltd. TT Claims in the Dome lake area (3,4). According to the Northern Miner (Nov. 11, 1985) Lighting has proposed a $2,810,000 three-phase exploration program for the claims.

Lawrence Mining Corp. is proposing geochemical and geophysical surveys and diamond drilling on its JIM 1, 2 claims at Brown Lake (6).

Lintex Ltd. is uncertain about developments on their property at Indin Lake.

It is expected that J.D. Mason will explore his several claim groups mainly in the Yellowknife and Yellowknife Supracrustal Basin areas (1, 3).

Noranda Exploration Company Ltd. will resume exploration in the Slave Structural Province. In the Clan Lake area (2) work will include an airborne EM and magnetometer survey over the BOSS claims. In the Slemon Lake area (24), the "Fruit claims" (LEMON, LEMONAIDE, PLUM, PEACH, BERRY, NUT, GRAPE etc) will be surveyed by airborne and ground geophysics and follow-up surveys. Auriferous iron formation and chert are the target .

Placer Development Ltd. will resume work in the Courageous Lake - MacKay Lake Volcanic Belt (8), where it will carry out geological mapping, geophysics and sampling. Placer's work in the Indin Lake Supracrustal Belt will not be continued. Expenditures in the Courageous Lake - MacKay Lake Volcanic Belt will be similar to those in 1985.

Roxwell Gold Mines Ltd. has not as yet been able to finance any exploration projects.

Ryan Energy Corporation Ltd. is unlikely to pursue its program at the WT group near Myrt Lake (4).

Suncor Inc. will continue work around Spider Lake (24), on its claims and on ground optioned from Treasure Island Resources Ltd. Work will include geophysics conducted over the ice in March and April, and geology, geophysics and prospecting during summer 1986.

Stu Blusson reports one of his companies will be active in the Slave Province.

Silver Hart Mines Ltd. will continue work in the Back River area (10,11) and in the northern Slave Province west of Bathurst Inlet (14), where an airborne geophysical survey of about 230 square km has been commissioned. Programs at Turner Lake and on the FARN-KNUT claims near Pistol Lake (14) will include diamond drilling, as will a program in the Bathurst Inlet area (13) on claims (including the G and T) optioned by Silver Hart to Vanstates Ltd. Silver Hart will manage this program.

Most if not all of Terra Mines Ltd. effort will be concentrated on the Bullmoose Lake property (3) for which $5,000,000 has been budgeted for underground development and exploration. Exploration will include testing of the No. 9 vein (800 m southwest of the No. 4 zone). A portable pilot mill capable, with slight modifications, of handling 200 t.p.d. will be trucked into Bullmoose Lake by winter road (Northern Miner 86-01-27).

Treasure Island Resources Ltd. will probably do a reconnaissance of a prospecting permit at Irritation Lake (19), acquired from Taiga Consultants Ltd.

Utah Mines Ltd. has a number of Slave Province gold projects in the planning stages and is expected to be active in 1986.

Welcome North Mines Ltd. has negotiated an interest in two gold properties and proposes to begin work on them in May. Diamond drilling is projected for August.

Windflower Mines Ltd are hoping to explore the CC claims at Clinton Colden Lake (9) for gold. Previous exploration was mainly for base metals.

Several other junior companies will likely be indirectly involved in gold exploration in the Slave Structural Province. Among these are Kappa Resources Ltd. which has ground near Contwoyto Lake under option to Cominco Ltd., Rockridge Mining Corp, Great Bear Development Ltd., Hemisphere Development Ltd, Hidden Lake Gold Mines Ltd., O.P Resources Ltd., Kanwood Resources Ltd., and Amhawk Resources Ltd. Most hold ground in the Contwoyto Lake area much of which is under option to Bow Valley Industries Ltd.

KEEWATIN REGION

Summit Energy '84 Inc. has acquired claims and a prospecting permit west of Maguse Lake, (1) in Figure X-3. Geophysical surveys, mapping, prospecting and diamond drilling will be used to explore a gold showing previously drilled by Selco Exploration Company Ltd.

Canadian Nickel Company Ltd. will survey and drill one or two gold showings on their prospecting permits north and west of Whale Cove (2).

Borealis Exploration Company Ltd. will explore their gold showing on the SUSAN claims (3) with geological mapping, prospecting and diamond drilling. Members of the fifteen-person crew on these claims will also prospect newly acquired prospecting permits along the Copperneedle River (4), west of Corbett Inlet (5), northwest of Kaminak Lake (7) and southwest of Yandle Lake (8).

Noble Peak Resources Ltd. has acquired a prospecting permit northwest of Happotiyik Lake (6) from Borealis Exploration Company Ltd. and will proceed with extensive ground exploration and possibly diamond drilling.

A small crew from Giant Yellowknife Mines Ltd. will prospect their claims in the Ennadai Lake area (9).

Comaplex Resources International Ltd. will explore in the Baker Lake area this summer. Ground geophysical surveys and prospecting will be completed on their claims east of Judge Sissons Lake (11). A larger crew including staff from Asamera Ltd. will map, prospect and complete geophysical and geochemical surveys on showings discovered in the Tehek Lake (15) and Whitehills Lake (14) area in 1985, before commencing diamond drilling. Prospecting permits acquired in the Laughland Lake (16) and MacQuoid Lake (10) areas will be prospected.

Urangesellschaft Canada Ltd. will concentrate its efforts on delineation drilling of the Lone Gull Deposit (12). A number of pre-feasibility studies will be undertaken as well as exploration of the claims adjacent to the deposit.

PNC Exploration (Canada) Company Ltd. will diamond drill uranium showings in the Marjorie Lake area (13).

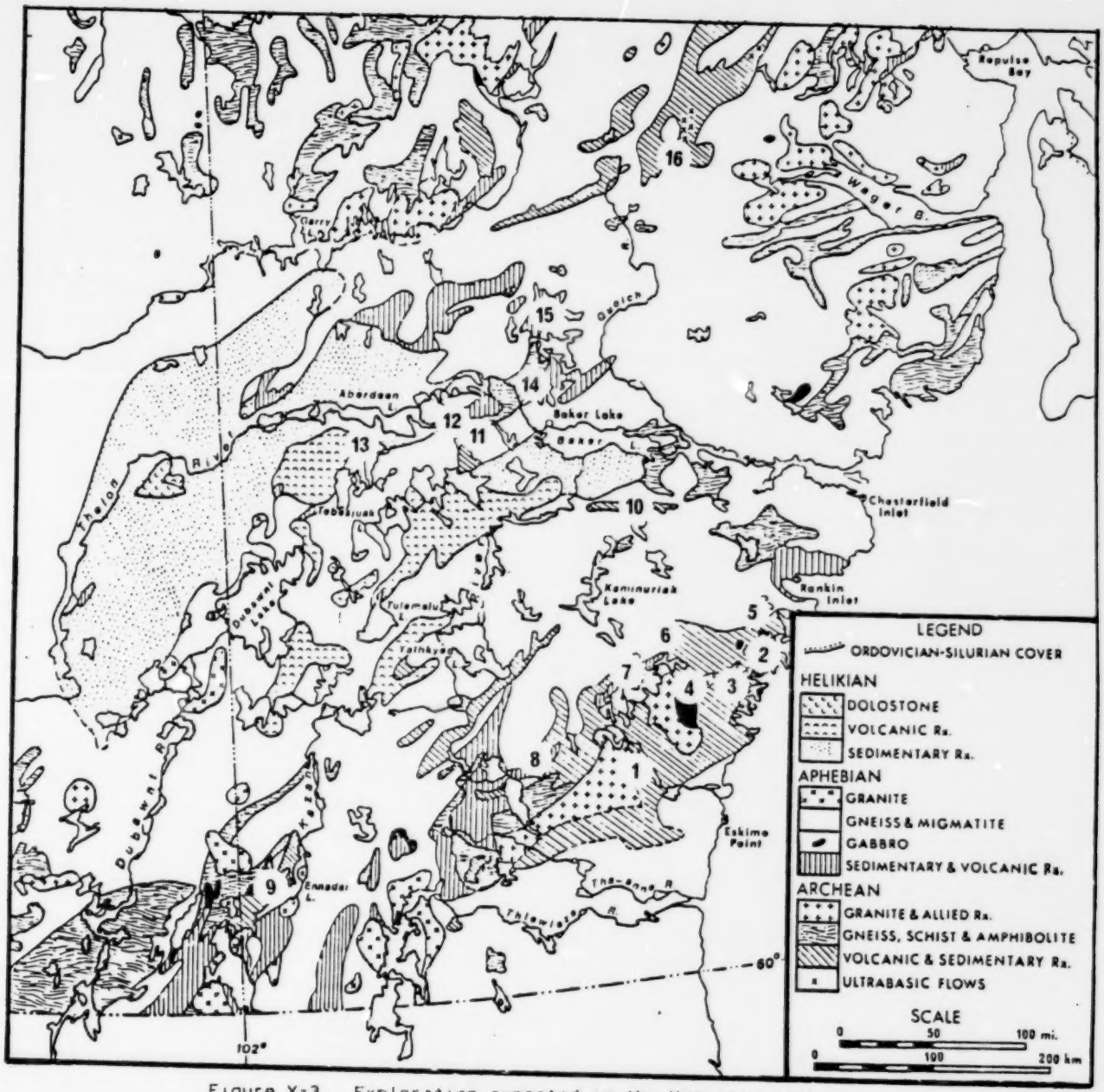

Figure X-3. Exploration expected in the Keewatin region.